

# SEARCH REQUEST FORM

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77237

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TECH/CHEM. DIVISION  
(STIC)

Requester's Full Name: Jeffrey E. Russel Examiner #: 62785 Date: 10-4-2002  
Art Unit: 16524 Phone Number 30 8-3975 Serial Number: 091863, 649  
Mail Box and Bldg/Room Location: CMI-9801 Results Format Preferred (circle) PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

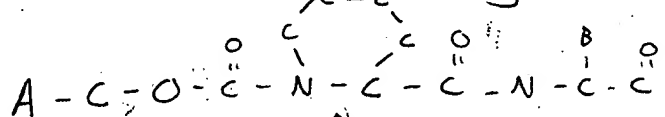
Title of Invention: Caspase Inhibitors And Uses Thereof

Inventors (please provide full names): J. Golec

Earliest Priority Filing Date: 5-23-2001

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search the following partial structure:



This ring is optionally substituted.

Edward Hart  
Technical Info. Specialist  
STIC/Biotech  
CMI 6B02 Tel: 305-9203

If there are many hits, please require A to be an optionally substituted phenyl ring, or require B to be  $-(CH_2)_2 - C$ .

If necessary, caspase, interleukin, inflammat?, autoimmune, apopto? can be used as key words.

Thank you.

JER

## STAFF USE ONLY

### Type of Search

### Vendors and cost where applicable

Searcher: _____	NA Sequence (#) _____	STN _____
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr. Link _____
Date Completed: <u>11/13/02</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>30</u>	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: _____	Other _____	Other (specify) _____

=> file hcaplus  
 FILE 'HCAPLUS' ENTERED AT 14:50:03 ON 13 NOV 2002  
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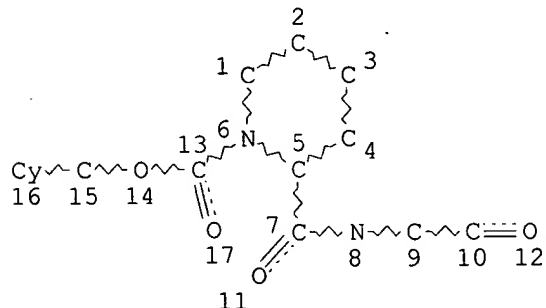
FILE COVERS 1907 - 13 Nov 2002 VOL 137 ISS 20  
 FILE LAST UPDATED: 12 Nov 2002 (20021112/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

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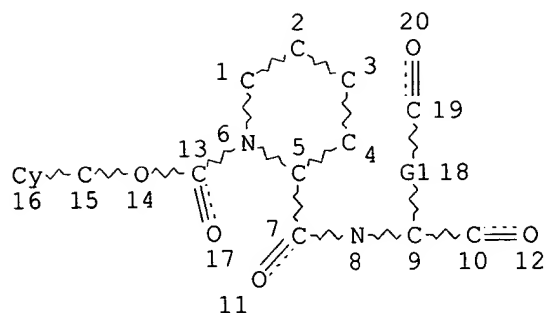
L1 STR



NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 17

STEREO ATTRIBUTES: NONE  
 L3 231 SEA FILE=REGISTRY SSS FUL L1  
 L4 STR



REP G1=(2-2) CH2  
 NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE  
 L6 0 SEA FILE=REGISTRY SUB=L3 SSS FUL L4

100.0% PROCESSED 9 ITERATIONS 0 ANSWERS  
 SEARCH TIME: 00.00.02

=> d stat que nos

L1 STR  
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 L7 509 SEA FILE=REGISTRY ABB=ON PLU=ON CASPASE/BI  
 L8 8131 SEA FILE=REGISTRY ABB=ON PLU=ON (INTERLEUKIN/BI OR INTERLEUKI  
 NE/BI OR INTERLEUKINS/BI OR INTERLEULIN/BI)  
 L9 2218 SEA FILE=REGISTRY ABB=ON PLU=ON (APOPTOSIS/BI OR APOPTOTIC/BI  
 )  
 L10 82 SEA FILE=HCAPLUS ABB=ON PLU=ON L3  
 L11 11109 SEA FILE=HCAPLUS ABB=ON PLU=ON L7 OR ?CASPASE?  
 L12 118779 SEA FILE=HCAPLUS ABB=ON PLU=ON L8 OR INTERLEUKIN?  
 L13 63836 SEA FILE=HCAPLUS ABB=ON PLU=ON L9 OR APOPTO?  
 L14 8 SEA FILE=HCAPLUS ABB=ON PLU=ON L10 AND (L11 OR L12 OR L13 OR  
 ?INFLAM? OR ?AUTOIMMUN?)

=> d ibib abs hitrn l14 tot

L14 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 2001:868417 HCAPLUS  
 DOCUMENT NUMBER: 136:5915  
 TITLE: Arylmethoxycarbonylpiperidinecarboxamides as  
 caspase inhibitors  
 INVENTOR(S): Golec, Julian  
 PATENT ASSIGNEE(S): Vertex Pharmaceuticals Incorporated, USA  
 SOURCE: PCT Int. Appl., 88 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English

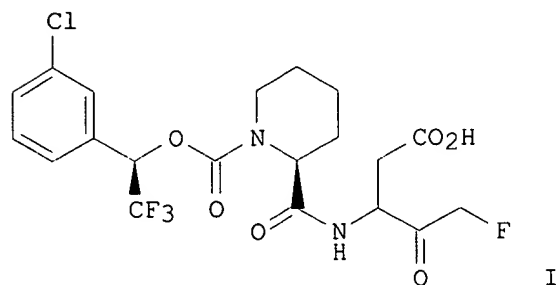
FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001090070	A2	20011129	WO 2001-US17075	20010523
WO 2001090070	A3	20020411		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 2002061853	A1	20020523	US 2001-863649	20010523
NO 2002000343	A	20020321	NO 2002-343	20020122
PRIORITY APPLN. INFO.:			US 2000-206362P	P 20000523
			US 2000-217006P	P 20000710
			WO 2001-US17075	W 20010523

OTHER SOURCE(S): MARPAT 136:5915

GI



AB ArCHR3O2CNR4CHR5CONHCH(CH2R2)COR1 [R1 = H, CHN2, R, CH2Y; R = (un)substituted aliph., aryl, aralkyl, heterocyclic, heterocyclalkyl; Y = electroneg. leaving group; R2 = CO2H, CH2CO2H, or esters, amides or isosteres thereof; Ar = (un)substituted aryl; R3 = H, (un)substituted alkyl, F2, CN, aryl; R3 is attached to Ar to form an unsatd. or partially satd. five or six membered fused ring having 0-2 heteroatoms; R4R5 = atoms required to form an (un)substituted piperidine, tetrahydroquinoline or tetrahydroisoquinoline ring] were prepd. for use in treating **caspase**-mediated diseases in mammals. Thus, the piperidinecarboxamide I was prepd. from Me (S)-2-piperidinecarboxylate by esterification with (R)-(-)-.alpha.-trifluoromethyl-3-chlorobenzyl alc., Me ester hydrolysis, amidation with FCH2CH(OH)CH(NH2)CH2CO2CMe3, oxidn. to the ketone, and ester hydrolysis. I had rate consts. for inactivation of **caspsases**-1, -3, and -5 of 518x103, 181x103, and 839x103 M-1s-1, resp.

IT 122191-40-6, Caspase-1 169592-56-7,  
Caspase-3 179241-78-2, Caspase-8

RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(prepn. of arylmethoxycarbonylpiperidinecarboxamides as **caspase** inhibitors)

## IT 376346-65-5P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of arylmethoxycarbonylpiperidinecarboxamides as **caspase** inhibitors)

## IT 376346-59-7P 376346-60-0P 376346-61-1P

376346-62-2P 376346-63-3P 376346-64-4P

376346-66-6P 376346-67-7P 376346-68-8P

376346-69-9P 376346-70-2P 376346-71-3P

376346-72-4P 376346-73-5P 376346-74-6P

376346-75-7P 376346-76-8P 376346-77-9P

376346-78-0P 376346-79-1P 376346-80-4P

376346-81-5P 376346-82-6P 376346-83-7P

376346-84-8P 376346-85-9P 376346-86-0P

376346-87-1P 376346-88-2P 376346-89-3P

376346-90-6P 376346-91-7P 376346-92-8P

376346-93-9P 376346-94-0P 376346-95-1P

376346-96-2P 376346-97-3P 376346-98-4P

376346-99-5P 376347-00-1P 376347-01-2P

376347-02-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of arylmethoxycarbonylpiperidinecarboxamides as **caspase** inhibitors)

## IT 376347-04-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of arylmethoxycarbonylpiperidinecarboxamides as **caspase** inhibitors)

L14 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:405971 HCAPLUS

DOCUMENT NUMBER: 129:81965

TITLE: Preparation of peptidyl 5-amino-1,3,4-thiadiazole-2-thiones

INVENTOR(S): Oleksyszyn, Jozef; Jacobson, Alan R.

PATENT ASSIGNEE(S): Proscript, Inc., USA; Oleksyszyn, Jozef; Jacobson, Alan R.

SOURCE: PCT Int. Appl., 97 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

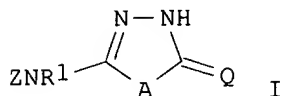
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9825949	A1	19980618	WO 1997-US22534	19971209
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
AU 9856923	A1	19980703	AU 1998-56923	19971209
PRIORITY APPLN. INFO.:			US 1996-762503	19961209

WO 1997-US22534

19971209

OTHER SOURCE(S):  
GI

MARPAT 129:81965



AB Aminothiadiazolethiones I (Q, A = S, O and one of Q and A is S; R1 = H, alkyl, acyl; Z is an org. radical that does not substantially interfere with matrix metalloproteinase inhibitory activity) were prepd. Thus, 5-[N-[4-(4-tert-butylphenylsulfonylamino)benzoyl]phenylalanylvalylamino]-1,3,4-thiadiazole-2-thione, prepd. by acylation of 5-amino-1,3,4-thiadiazole-2-thione with the phenylalanylvaline deriv., was assayed for stromelysin inhibitory activity (IC50 = 44 nM).

IT 209275-18-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. of peptidyl aminothiadiazolethiones)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:293475 HCAPLUS

DOCUMENT NUMBER: 129:4862

TITLE: Preparation of amino acid-containing  
tetrahydroisoquinoline derivatives as dipeptidyl  
peptidase IV inhibitors

INVENTOR(S): Sugita, Takahisa; Ohnuki, Tetsuo; Yamada, Masaki;  
Tanaka, Sumiko; Nonaka, Nobuaki; Asai, Yasuyuki

PATENT ASSIGNEE(S): Tanabe Seiyaku Co., Ltd., Japan; Sugita, Takahisa;  
Ohnuki, Tetsuo; Yamada, Masaki; Tanaka, Sumiko;  
Nonaka, Nobuaki; Asai, Yasuyuki

SOURCE: PCT Int. Appl., 87 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

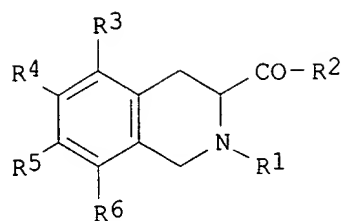
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9818763	A1	19980507	WO 1997-JP3804	19971022
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
JP 10182613	A2	19980707	JP 1997-288322	19971021
AU 9747218	A1	19980522	AU 1997-47218	19971022
PRIORITY APPLN. INFO.:			JP 1996-284328	19961025
			WO 1997-JP3804	19971022

OTHER SOURCE(S): MARPAT 129:4862  
GI



I

AB The title compds. I [R1 = amino protecting group, etc.; R2 = optionally protected hydroxy, etc.; R3 - R6 = H, hydroxy, alkoxy] are prepd. In an in vitro test, 21 compds. of this invention showed inhibiting activity against dipeptidyl peptidase IV. (3S)-2-(L-Tryptophyl)-1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid hydrochloride at 30 mg/kg/day s.c. for 18 days gave significant inhibition of exptl. arthritis in rats.

IT **207228-44-2P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of amino acid-contg. tetrahydroisoquinoline derivs. as dipeptidyl peptidase IV inhibitors)

IT **207228-79-3P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of amino acid-contg. tetrahydroisoquinoline derivs. as dipeptidyl peptidase IV inhibitors)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1997:491643 HCAPLUS

DOCUMENT NUMBER: 127:109196

TITLE: Preparation of tetrazole moiety-containing peptides as **interleukin** 1.beta. converting enzyme inhibitors

INVENTOR(S): Ohmoto, Kazuyuki; Tanaka, Makoto; Miyazaki, Tohru; Ohno, Hiroyuki

PATENT ASSIGNEE(S): Ono Pharmaceutical Co., Ltd., Japan; Ohmoto, Kazuyuki; Tanaka, Makoto; Miyazaki, Tohru; Ohno, Hiroyuki

SOURCE: PCT Int. Appl., 743 pp.

CODEN: PIXXD2

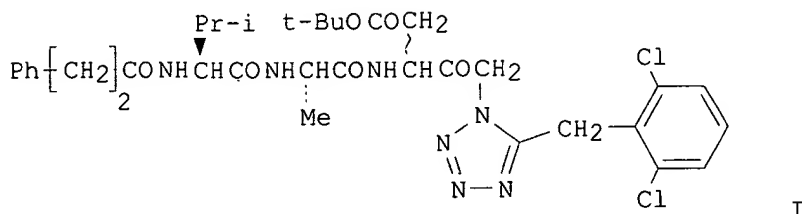
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9724339	A1	19970710	WO 1996-JP3801	19961226
W: JP, KR, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 889039	A1	19990107	EP 1996-942651	19961226



AB The title compds. R1COAA1AA2NHY [R1 represents H, alkyl, alkoxy, a carbocycle, a heterocycle, alkyl or alkoxy substituted by a carbocycle or a heterocycle, etc.; AA1 represents a single bond or NHCHR4CO; R4 = H, etc.; AA2 represents a single bond, etc.; further details on AA1 and AA2 are given; Y represents a group of formula CH[CH2CO2R19](CH2)nTetZE wherein Tet represents a tetrazole ring; Z represents alkylene, alkenylene, O, S, SO, SO2, etc.; E represents H, alkyl, etc.; R19 represents H, alkyl, etc.; n = 1 - 4] are prepd. The title compd. I in vitro showed IC50 of 0.03 .mu.M against **interleukin 1.beta.** converting enzyme.

IT 192457-27-5P 192457-29-7P 192457-80-0P  
192457-82-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. of tetrazole moiety-contg. peptides as **interleukin**  
1.beta. converting enzyme inhibitors)

IT 122191-40-6, Interleukin 1.beta. converting enzyme

RL: BSU (Biological study, unclassified); MSC (Miscellaneous); BIOL (Biological study)

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1. (prepn. of tetrazole moiety-contg. peptides as interleukin
2. 1. beta. converting enzyme inhibitors)

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L14 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1997:244196 HCAPLUS

DOCUMENT NUMBER: 126:220696

DOCUMENT NUMBER: 1504120000  
TITLE: Method for determining the therapeutic activity of metalloproteinase inhibitor compounds, new inhibitor compounds, and the therapeutic use thereof

INVENTOR(S): Politi, Vincenzo; D. Alessio, Silvana; Di Stazio, Giovanni; De Luca, Giovanna; Materazzi, Mario

PATENT ASSIGNEE(S): Polifarma S.P.A., Italy

SOURCE: Eur. Pat. Appl., 30 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:



PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 758021	A2	19970212	EP 1996-830445	19960802
EP 758021	A3	19980722		
R: DE, ES, FR, GB				
US 5846755	A	19981208	US 1996-693021	19960806
JP 09136841	A2	19970527	JP 1996-208490	19960807
US 6057297	A	20000502	US 1998-40446	19980318
PRIORITY APPLN. INFO.:			IT 1995-RM557	19950807
			US 1996-693021	19960806

OTHER SOURCE(S): MARPAT 126:220696

AB A method is disclosed for detg. the activity as pharmacol. agents of zinc-dependent metalloproteinase-inhibiting peptidomimetic chem. compds. extd. from snake venom for the therapeutic treatment of disturbances created in mammals by metalloproteinases of endogenous origin. Also disclosed are inhibitor compds. detd. in this way, as well as their pharmaceutical use in a variety of important human pathologies connected with endogenous metalloproteinase activation. Prepn. of selected compds. of the invention is also described. The compds. may be used in the treatment of e.g. atherosclerosis or to e.g. influence immune response or antagonize the toxic effects of snake venom.

IT 187802-49-9

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(zinc-dependent metalloproteinase inhibitor compd. identification method, peptidomimetic prepn., and therapeutic use)

L14 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995:994903 HCAPLUS

DOCUMENT NUMBER: 124:118000

TITLE: Preparation of bradykinin antagonist peptides incorporating N-substituted glycines

INVENTOR(S): Goodfellow, Val S.; Marathe, Manoj V.; Whalley, Eric T.; Fitzpatrick, Timothy D.; Kuhlman, Karen G.

PATENT ASSIGNEE(S): Cortech, Inc., USA

SOURCE: PCT Int. Appl., 73 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9524422	A1	19950914	WO 1995-US2399	19950307
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TT, UA				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2184824	AA	19950914	CA 1995-2184824	19950307
AU 9519325	A1	19950925	AU 1995-19325	19950307
AU 696429	B2	19980910		
CN 1148393	A	19970423	CN 1995-193017	19950307
JP 09511500	T2	19971118	JP 1995-523493	19950307
EP 813544	A1	19971229	EP 1995-911948	19950307

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT

ZA 9501974	A	19951211	ZA 1995-1974	19950309
TW 408133	B	20001011	TW 1995-84102476	19950315
US 5700779	A	19971223	US 1996-668100	19960620

PRIORITY APPLN. INFO.: US 1994-208115 A 19940309  
WO 1995-US2399 W 19950307

OTHER SOURCE(S): MARPAT 124:118000

AB Bradykinin-type peptides contg. N-substituted glycines, particularly bradykinin antagonist peptides, useful for the treatment of conditions mediated by bradykinin including pain and **inflammation**, are prepd. Preferably, said peptides are represented by general formula Z1-Z0-A1-B2-C3-D4-E5-F6-G7-H8-I9-J10 [Z1 = absent, H, Ac, adamantylcarbonyl, adamantylacetyl, C1-8 alkyl or alkanoyl, arylsulfonyl, alkoxy carbonyl, dihydroquinuclidinecarbonyl; Z0, A1 = direct bond, H, D- or L-Arg, Lys, or Orn, H2N(C:NH)NH(CH2)3(CH2)nCO, an Arg substitute; wherein n = 0-3; B2, C3 = Pro, hydroxyproline, Sar, Ser, Thr, MeSer, MeThr, MePhe, (un)substituted Gly; D4 = Gly, Ala, thienylalanine; or B2-C3-D4-E5 = NH(CH2)mCO; wherein m = 4-14; E5 = Phe, methyl-substituted Phe, Gly, cyclopentylglycine, cyclohexylglycine, cyclohexylalanine, 2-indaneglycine, thienylalanine, N-(2-indanyl)glycine, N-substituted glycine; F6 = aliph. or arom. amino acid; G7 = arom. amino acid selected from D-1,2,3,4-tetrahydroisoquinolin-3-ylcarbonyl, D-dihydroisoquinolin-3-ylcarbonyl, D-Phe, 2-indaneglycine, D-cyclopentylglycine, D-Pro, 3- or 4-substituted Pro, N-substituted Gly; H8 = amino acid residue NR1CHR2CO or N[(CH2)1]CHR2CO; wherein 1 = 1-6; R1 = (un)substituted C1-2 alkyl, C3-8 cycloalkyl, mono- or polycyclic aryl, heteroaryl, or heterocyclyl contg. .gtoreq.1 rings of 3-8 atoms selected from C, N, O, or S; R2 = H, Me, alkyl, acidic, basic, or neutral alkyl or arom. amino acid residue; I9 = absent or direct bond, OH, amino acid, H2N(C:NH)NH(CH2)3(CH2)n, an Arg substitute; J10 = absent, OH, amino acid, alkoxy, alkylamino]. Thus, H-D-Arg-Arg-Pro-Hyp-Gly-Thi-Ser-D-Tic-NChg-Arg-OH [Thi = .beta.--(2-thienyl)alanine, Tic = 1,2,3,4-tetrahydroisoquinolin-3-ylcarbonyl, NChg = N-cyclohexylglycine] (I) was prepd. by manual solid phase method which involved sequentially coupling Boc-amino acids to a Boc-Arg(Tos)-resin and resin cleavage and deprotection. In the std. rat uterus pA2 assay for in vitro B2 antagonist activity, I showed the pA2 value of 9.5+-.0.05.

IT 172834-28-5P 172834-29-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(prepn. of bradykinin antagonist peptides contg. N-substituted glycines for treating pain and **inflammation**)

L14 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1993:496186 HCAPLUS

DOCUMENT NUMBER: 119:96186

TITLE: Preparation of pseudopeptides and dipeptides characterized by a substituted methyl ketone moiety at the C-terminus as thiol protease inhibitors

INVENTOR(S): Ando, Ryoichi; Ando, Naoko; Masuda, Hirokazu; Morinaka, Yasuhiro; Takahashi, Chizuko; Tamao, Yoshikuni; Tobe, Akihiro

PATENT ASSIGNEE(S): Mitsubishi Kasei Corp., Japan

SOURCE: Eur. Pat. Appl., 218 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 525420	A1	19930203	EP 1992-111129	19920701
EP 525420	B1	19990512		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE				
JP 05246968	A2	19930924	JP 1992-165094	19920623
JP 3190431	B2	20010723		
CA 2072834	AA	19930102	CA 1992-2072834	19920630
AT 179974	E	19990515	AT 1992-111129	19920701
ES 2132096	T3	19990816	ES 1992-111129	19920701
US 5639783	A	19970617	US 1995-451720	19950526
US 5834508	A	19981110	US 1997-798036	19970206

## PRIORITY APPLN. INFO.:

JP 1991-160674	A	19910701
JP 1991-277905	A	19911024
JP 1991-343668	A	19911225
US 1992-907228	B1	19920701
US 1994-252397	B1	19940601
US 1995-451720	A3	19950526

## OTHER SOURCE(S):

MARPAT 119:96186

AB R1(NR2CHR3CO)nNR4CHR5CONR6CR7R8COCH2AR9 [R1 = H, R10CO, R10O2C, R10SO2, R10NHCO; R2; R4, R6 = H, alkyl; R3, R5 = alkoxy, H, aralkoxy, (substituted) aryl, alkyl; R2R3, R4R5 = (substituted) heterocyclyl; R7 = H, (substituted) alkyl, aralkoxy, aryl, alkoxy; R8 = H, alkyl, (substituted) aralkyl; R7R8 = (substituted) benzylidene, cycloalkyl; A = S, SO, SO2, O, NH, alkylimino; R9 = H, (substituted) aryl, (CH2)nX; n = 0, 1; m = 0-15; X = H, OH, alkylthio, alkoxycarbonylamino, (substituted) heterocyclyl, amino, arylamino, halo, alkoxy, (substituted) aryl, aryloxy; R10 = (substituted) alkyl], were prepd. Thus, S-3-amino-1-furfurylthio-2-heptanone hydrochloride (prepn. given) was condensed with tert-butoxycarbonylleucine N-hydroxysuccinimido ester in CH2Cl2 contg. Et3N to give 96% S-3-(S-2-tert-butoxycarbonylamino-4-methylvaleryl-amino)-1-furfurylthio-2-heptanone. This inhibited papain, cathepsin B, cathepsin L, and m-calpain with IC50's of 0.37, 0.057, 0.038, and 5.8 .mu.m, resp. Dosage forms were prepd. contg. specific title compds.

## IT 149045-27-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of, as thiol protease inhibitor)

L14 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1992:612969 HCAPLUS

DOCUMENT NUMBER: 117:212969

TITLE: Preparation of peptides containing levorotatory or/and arom. amino acid residues as drugs.

INVENTOR(S): Politi, Vincenzo; Di Stazio, Giovanni; Margonelli, Andrea; De Luca, Giovanna

PATENT ASSIGNEE(S): Polifarma S.p.A., Italy

SOURCE: PCT Int. Appl., 46 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9206108	A1	19920416	WO 1991-IT80	19911003
W: AU, CA, FI, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
CA 2070169	AA	19920404	CA 1991-2070169	19911003

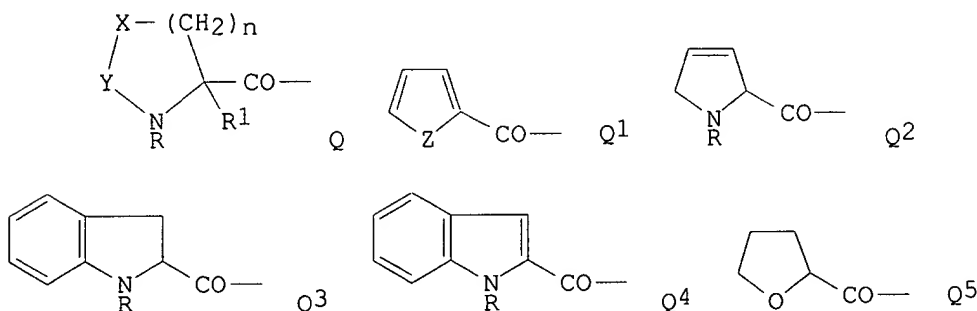
AU 9187150	A1	19920428	AU 1991-87150	19911003
AU 640534	B2	19930826		
EP 503044	A1	19920916	EP 1991-917743	19911003
EP 503044	B1	19960612		
R: DE, ES, FR, GB				
JP 04506083	T2	19921022	JP 1991-516511	19911003
JP 2502868	B2	19960529		
ES 2089234	T3	19961001	ES 1991-917743	19911003
US 5504071	A	19960402	US 1994-311449	19940926
US 5736518	A	19980407	US 1995-573399	19951215

PRIORITY APPLN. INFO.:

IT 1990-48335	19901003
WO 1991-IT80	19911003
US 1992-867231	19920602
US 1994-311449	19940926

OTHER SOURCE(S):  
GI

MARPAT 117:212969



AB The title compds., A-B-C [A = Q-Q5; X = CH<sub>2</sub>, S, CHOH; n = 0, 1, 2; R<sub>1</sub> = H, Me; R = H, Me, blocking group; Y = CH<sub>2</sub>, CO; Z = NH, NMe, O, S; B = l-amino acid residue selected from Gly, Leu, Ala, and Val; C = l-arom. amino acid residue selected from Trp, Phe, phenylglycine residue] and their salts, esters, and amides, useful as antihypertensives, analgesics, immunomodulators, and **antiinflammatories**, are prepd. Condensation of PhCH<sub>2</sub>O<sub>2</sub>C-L-Pro-L-Ala-OH with (S)-Cyt-OEt.HCl (Cyt = 1,2,3,4-tetrahydro-9H-pyrido[3,4-b]indole-3-carboxylic acid residue) in the presence of isobutyl chloroformate and 1-hydroxybenzotriazole gave PhCH<sub>2</sub>O<sub>2</sub>C-L-Pro-L-Ala-(S)-Cyt-OEt, which at 4 mg/kg i.p. reduced blood pressure by 15-20%.

IT 143413-25-6P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. of, as drug)

=> sel hit rn  
E1 THROUGH E60 ASSIGNED

=> file reg  
FILE 'REGISTRY' ENTERED AT 14:54:29 ON 13 NOV 2002  
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STRUCTURE FILE UPDATES: 11 NOV 2002 HIGHEST RN 473219-67-9  
 DICTIONARY FILE UPDATES: 11 NOV 2002 HIGHEST RN 473219-67-9

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

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 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP  
 PROPERTIES for more information. See STNote 27, Searching Properties  
 in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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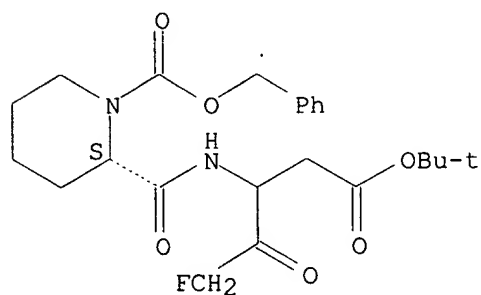
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L15 60 S E1-E60  
 L16 57 S L15 AND L3

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L16 ANSWER 1 OF 57 REGISTRY COPYRIGHT 2002 ACS  
 RN 376347-04-5 REGISTRY  
 CN 1-Piperidinecarboxylic acid, 2-[[[1-[2-(1,1-dimethylethoxy)-2-oxoethyl]-3-  
 fluoro-2-oxopropyl]amino]carbonyl]-, phenylmethyl ester, (2S)- (9CI) (CA  
 INDEX NAME)  
 FS STEREOSEARCH  
 MF C23 H31 F N2 O6  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

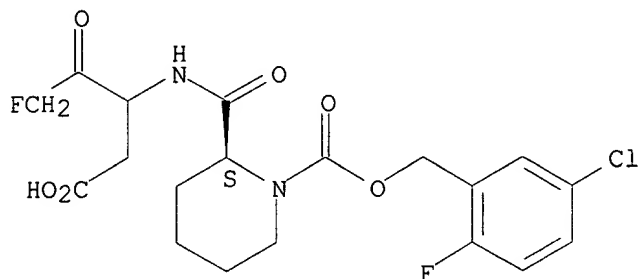
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 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 2 OF 57 REGISTRY COPYRIGHT 2002 ACS

RN 376347-02-3 REGISTRY  
 CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, 1-[(5-chloro-2-fluorophenyl)methyl] ester, (2S)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C19 H21 Cl F2 N2 O6  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



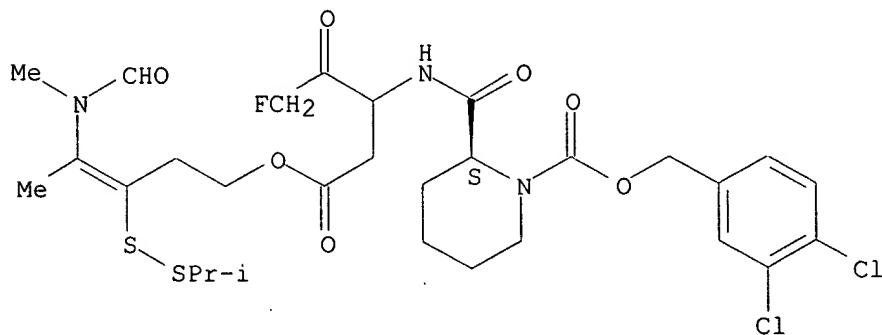
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REFERENCE 1: 136:5915

L16 ANSWER 3 OF 57 REGISTRY COPYRIGHT 2002 ACS  
 RN 376347-01-2 REGISTRY  
 CN 1-Piperidinecarboxylic acid, 2-[[[3-fluoro-1-[2-[[4-(formylmethylamino)-3-[(1-methylethyl)dithio]-3-pentenyl]oxy]-2-oxoethyl]-2-oxopropyl]amino]carbonyl]-, (3,4-dichlorophenyl)methyl ester, (2S)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C29 H38 Cl2 F N3 O7 S2  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.  
 Double bond geometry unknown.



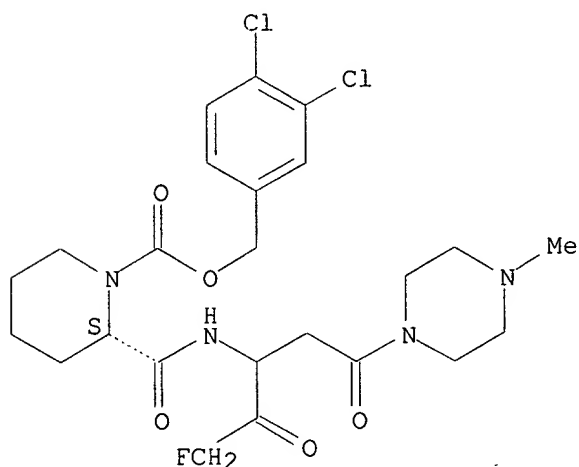
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1 REFERENCES IN FILE CA (1962 TO DATE)  
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REFERENCE 1: 136:5915

L16 ANSWER 4 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN **376347-00-1** REGISTRY  
CN 1-Piperidinecarboxylic acid, 2-[[[3-fluoro-1-[2-(4-methyl-1-piperazinyl)-2-oxoethyl]-2-oxopropyl]amino]carbonyl]-, (3,4-dichlorophenyl)methyl ester, (2S)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C24 H31 Cl2 F N4 O5  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



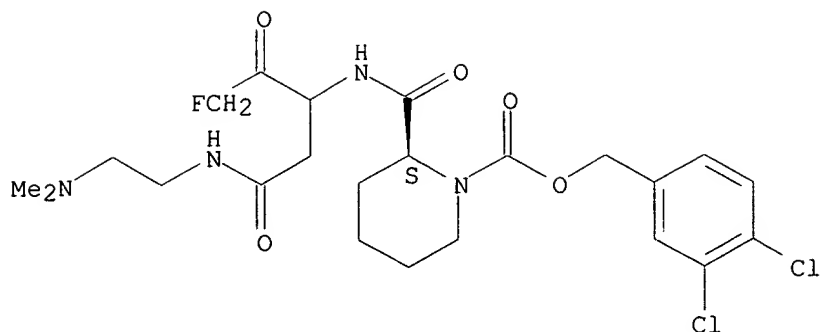
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1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 5 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN **376346-99-5** REGISTRY  
CN 1-Piperidinecarboxylic acid, 2-[[[1-[2-[2-(dimethylamino)ethyl]amino]-2-oxoethyl]-3-fluoro-2-oxopropyl]amino]carbonyl]-, (3,4-dichlorophenyl)methyl ester, (2S)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C23 H31 Cl2 F N4 O5  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



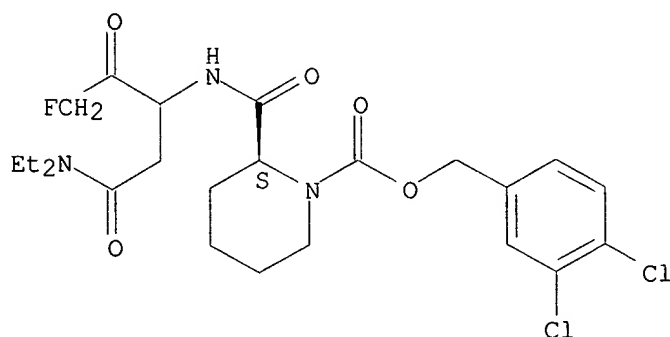
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1 REFERENCES IN FILE CA (1962 TO DATE)  
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REFERENCE 1: 136:5915

L16 ANSWER 6 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN **376346-98-4** REGISTRY  
CN 1-Piperidinecarboxylic acid, 2-[[[1-[2-(diethylamino)-2-oxoethyl]-3-fluoro-2-oxopropyl]amino]carbonyl]-, (3,4-dichlorophenyl)methyl ester, (2S)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C23 H30 Cl2 F N3 O5  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 7 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN **376346-97-3** REGISTRY  
CN 1-Piperidinecarboxylic acid, 2-[[[1-[2-(ethylamino)-2-oxoethyl]-3-fluoro-2-



oxopropyl]amino]carbonyl]-, (3,4-dichlorophenyl)methyl ester, (2S)- (9CI)  
(CA INDEX NAME)

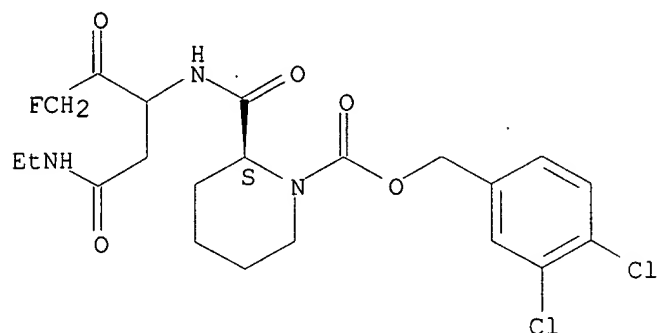
FS STEREOSEARCH

MF C21 H26 Cl2 F N3 O5

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 8 OF 57 REGISTRY COPYRIGHT 2002 ACS

RN 376346-96-2 REGISTRY

CN 1-Piperidinecarboxylic acid, 2-[[[1-(2-amino-2-oxoethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, (3,4-dichlorophenyl)methyl ester, (2S)- (9CI)  
(CA INDEX NAME)

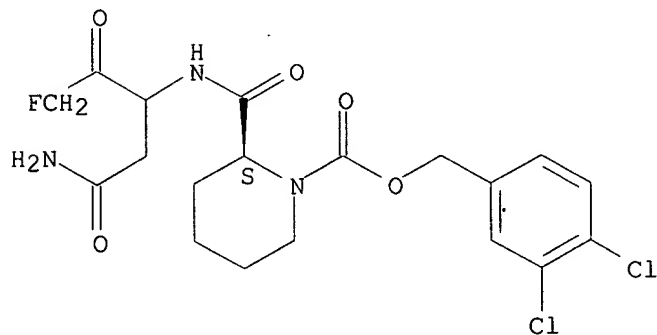
FS STEREOSEARCH

MF C19 H22 Cl2 F N3 O5

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



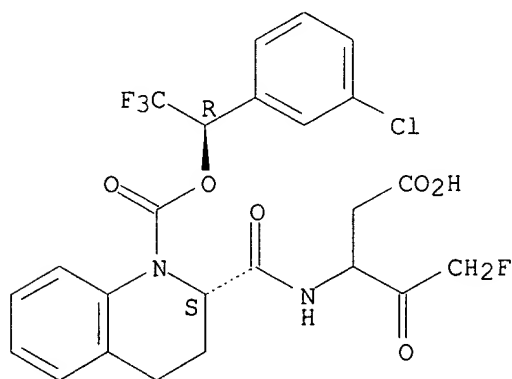
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REFERENCE 1: 136:5915

L16 ANSWER 9 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN **376346-95-1** REGISTRY  
CN 1(2H)-Quinolinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-3,4-dihydro-, 1-[(1R)-1-(3-chlorophenyl)-2,2,2-trifluoroethyl] ester, (2S)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C24 H21 Cl F4 N2 O6  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



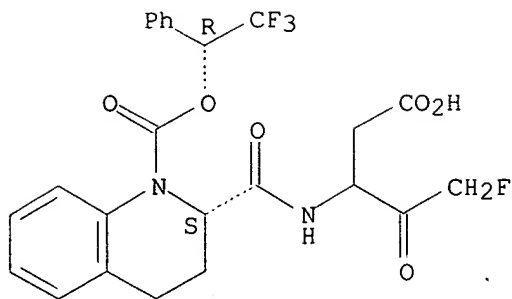
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REFERENCE 1: 136:5915

L16 ANSWER 10 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN **376346-94-0** REGISTRY  
CN 1(2H)-Quinolinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-3,4-dihydro-, 1-[(1R)-2,2,2-trifluoro-1-phenylethyl] ester, (2S)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C24 H22 F4 N2 O6  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



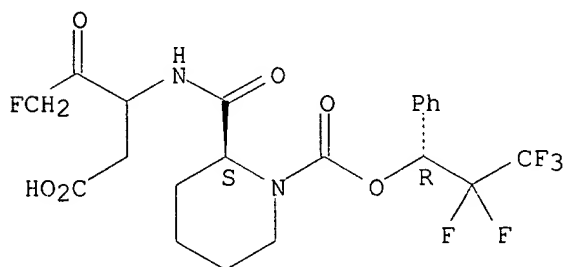
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REFERENCE 1: 136:5915

L16 ANSWER 11 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN 376346-93-9 REGISTRY  
CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, 1-[(1R)-2,2,3,3,3-pentafluoro-1-phenylpropyl] ester, (2S)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C21 H22 F6 N2 O6  
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LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



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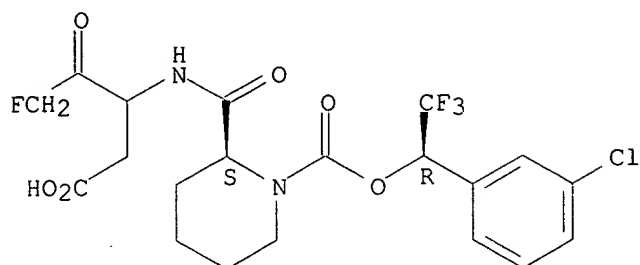
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REFERENCE 1: 136:5915

L16 ANSWER 12 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN 376346-92-8 REGISTRY  
CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, 1-[(1R)-1-(3-chlorophenyl)-2,2,2-trifluoroethyl] ester, (2S)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH

MF C20 H21 Cl F4 N2 O6  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



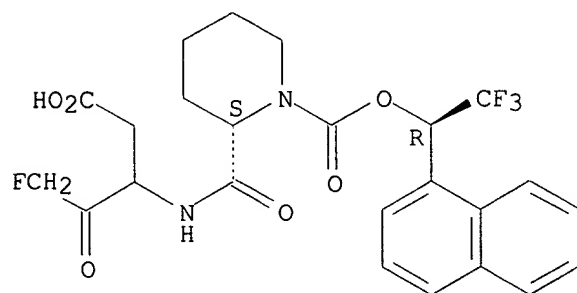
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REFERENCE 1: 136:5915

L16 ANSWER 13 OF 57 REGISTRY COPYRIGHT 2002 ACS  
 RN 376346-91-7 REGISTRY  
 CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, 1-[(1R)-2,2,2-trifluoro-1-(1-naphthalenyl)ethyl] ester, (2S)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C24 H24 F4 N2 O6  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

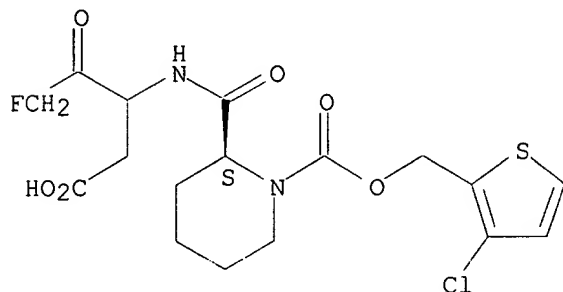
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REFERENCE 1: 136:5915

L16 ANSWER 14 OF 57 REGISTRY COPYRIGHT 2002 ACS

RN 376346-90-6 REGISTRY  
 CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, 1-[(3-chloro-2-thienyl)methyl] ester, (2S)-(9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C17 H20 Cl F N2 O6 S  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



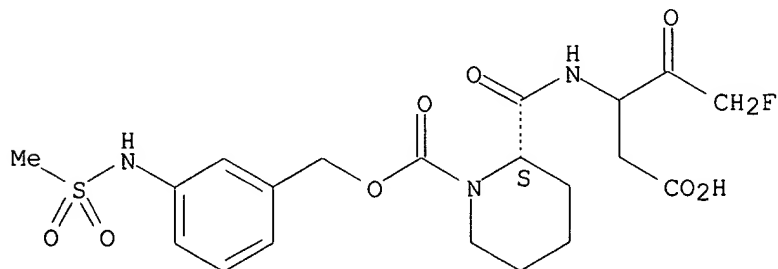
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1 REFERENCES IN FILE CA (1962 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 15 OF 57 REGISTRY COPYRIGHT 2002 ACS  
 RN 376346-89-3 REGISTRY  
 CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, 1-[[3-[(methylsulfonyl)amino]phenyl]methyl] ester, (2S)-(9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C20 H26 F N3 O8 S  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

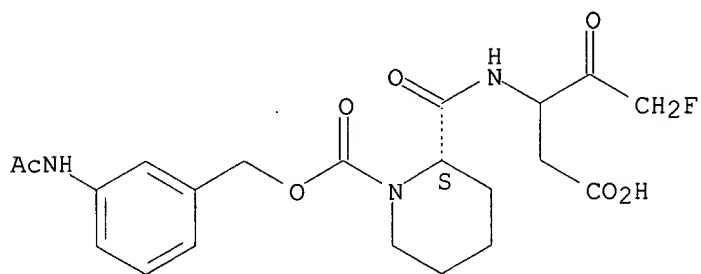
1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 16 OF 57 REGISTRY COPYRIGHT 2002 ACS  
 RN 376346-88-2 REGISTRY  
 CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, 1-[[3-(acetyl amino)phenyl]methyl] ester, (2S)-(9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C21 H26 F N3 O7  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



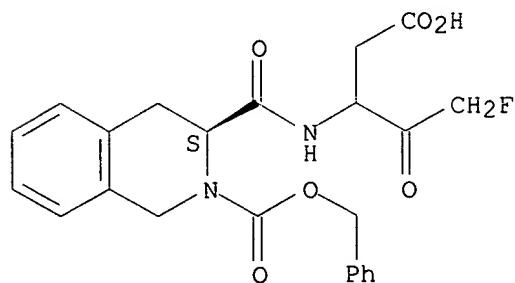
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 17 OF 57 REGISTRY COPYRIGHT 2002 ACS  
 RN 376346-87-1 REGISTRY  
 CN 2(1H)-Isoquinolinecarboxylic acid, 3-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-3,4-dihydro-, 2-(phenylmethyl) ester, (3S)-(9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C23 H23 F N2 O6  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



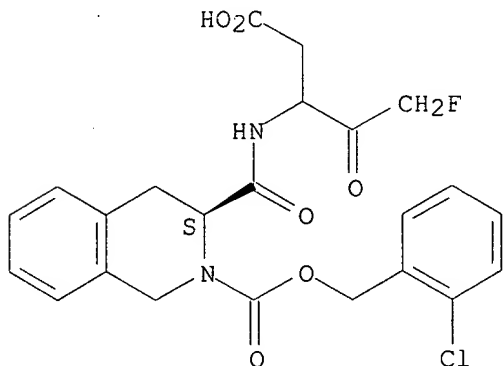
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 18 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN **376346-86-0** REGISTRY  
CN 2(1H)-Isoquinolinecarboxylic acid, 3-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-3,4-dihydro-, 2-[(2-chlorophenyl)methyl] ester, (3S)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C23 H22 Cl F N2 O6  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



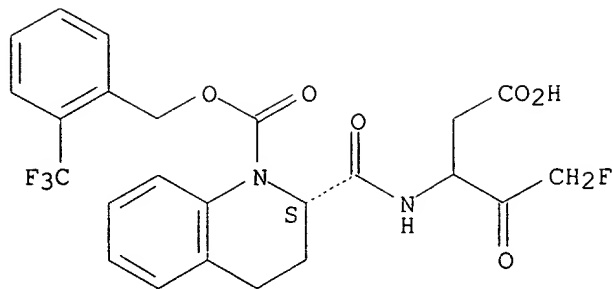
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 19 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN **376346-85-9** REGISTRY  
CN 1(2H)-Quinolinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-3,4-dihydro-, 1-[[2-(trifluoromethyl)phenyl]methyl] ester, (2S)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C24 H22 F4 N2 O6  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



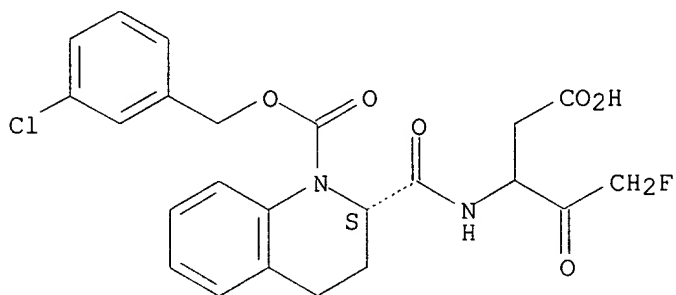
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 20 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN 376346-84-8 REGISTRY  
CN 1(2H)-Quinolinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-3,4-dihydro-, 1-[(3-chlorophenyl)methyl] ester, (2S)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C23 H22 Cl F N2 O6  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

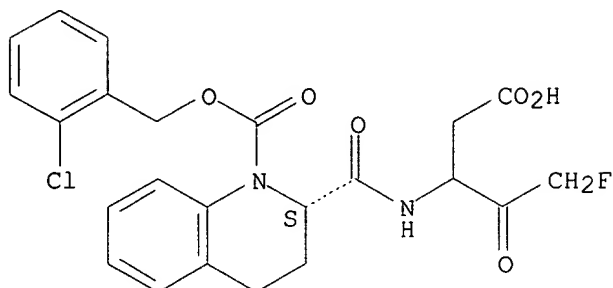
REFERENCE 1: 136:5915

L16 ANSWER 21 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN 376346-83-7 REGISTRY  
CN 1(2H)-Quinolinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-3,4-dihydro-, 1-[(2-chlorophenyl)methyl] ester, (2S)- (9CI) (CA INDEX NAME)



FS STEREOSEARCH  
MF C23 H22 Cl F N2 O6  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



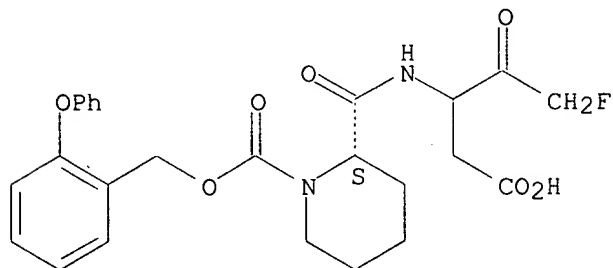
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1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 22 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN 376346-82-6 REGISTRY  
CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, 1-[(2-phenoxymethyl)methyl] ester, (2S)- (9CI)  
(CA INDEX NAME)  
FS STEREOSEARCH  
MF C25 H27 F N2 O7  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



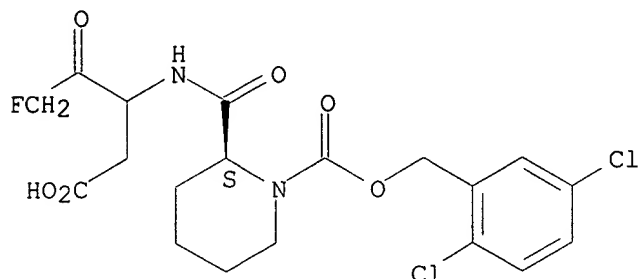
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1 REFERENCES IN FILE CA (1962 TO DATE)  
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REFERENCE 1: 136:5915

L16 ANSWER 23 OF 57 REGISTRY COPYRIGHT 2002 ACS  
 RN 376346-81-5 REGISTRY  
 CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, 1-[(2,5-dichlorophenyl)methyl] ester, (2S)-(9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C19 H21 Cl2 F N2 O6  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



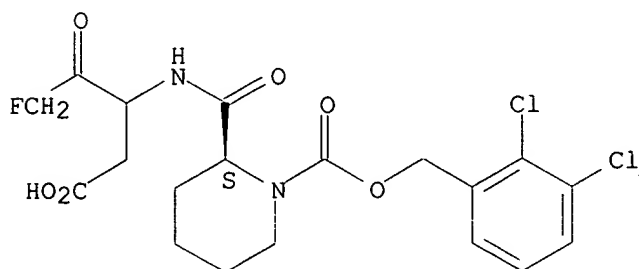
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 24 OF 57 REGISTRY COPYRIGHT 2002 ACS  
 RN 376346-80-4 REGISTRY  
 CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, 1-[(2,3-dichlorophenyl)methyl] ester, (2S)-(9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C19 H21 Cl2 F N2 O6  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

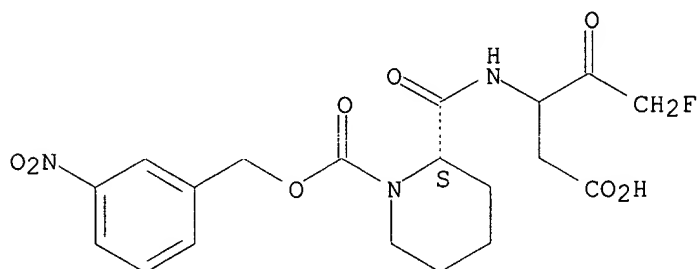
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1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 25 OF 57 REGISTRY COPYRIGHT 2002 ACS  
 RN 376346-79-1 REGISTRY  
 CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, 1-[(3-nitrophenyl)methyl] ester, (2S)- (9CI)  
 (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C19 H22 F N3 O8  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



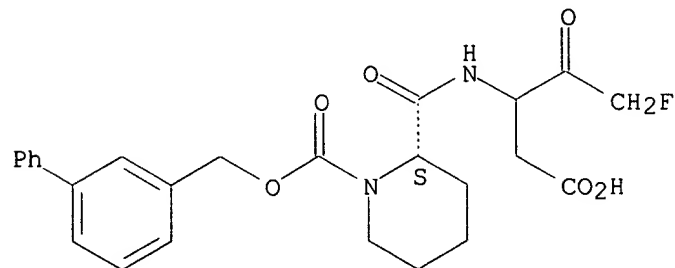
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1 REFERENCES IN FILE CA (1962 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 26 OF 57 REGISTRY COPYRIGHT 2002 ACS  
 RN 376346-78-0 REGISTRY  
 CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, 1-([1,1'-biphenyl]-3-ylmethyl) ester, (2S)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C25 H27 F N2 O6  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



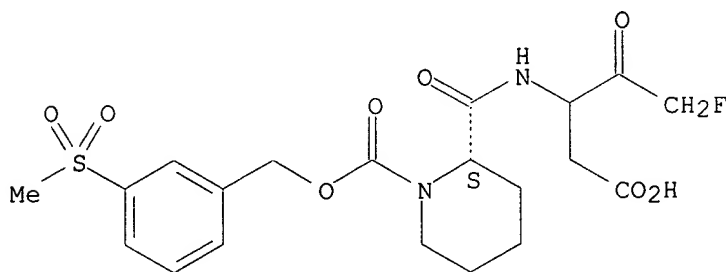
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 27 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN **376346-77-9** REGISTRY  
CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, 1-[[3-(methylsulfonyl)phenyl]methyl] ester, (2S)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C20 H25 F N2 O8 S  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



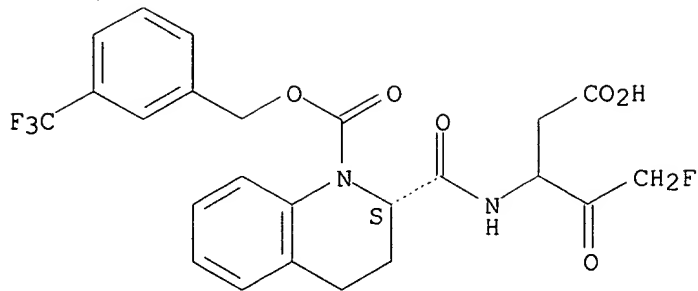
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1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 28 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN **376346-76-8** REGISTRY  
CN 1(2H)-Quinolinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-3,4-dihydro-, 1-[[3-(trifluoromethyl)phenyl]methyl] ester, (2S)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C24 H22 F4 N2 O6  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



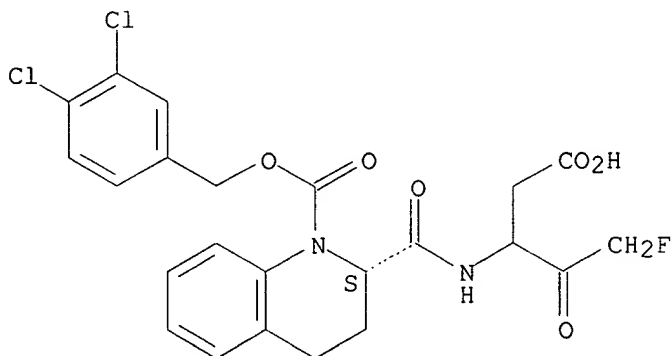
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1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 29 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN **376346-75-7** REGISTRY  
CN 1(2H)-Quinolinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-3,4-dihydro-, 1-[(3,4-dichlorophenyl)methyl] ester, (2S)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C23 H21 Cl2 F N2 O6  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 30 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN **376346-74-6** REGISTRY  
CN 1(2H)-Quinolinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-

oxopropyl]amino]carbonyl]-3,4-dihydro-, 1-[(4-chlorophenyl)methyl] ester,  
(2S)- (9CI) (CA INDEX NAME)

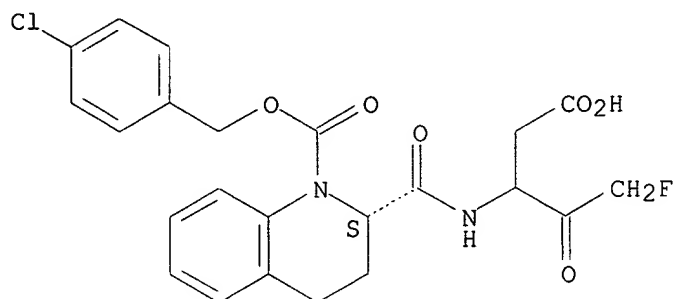
FS STEREOSEARCH

MF C23 H22 Cl F N2 O6

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 31 OF 57 REGISTRY COPYRIGHT 2002 ACS

RN 376346-73-5 REGISTRY

CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, 1-[[2,4-bis(trifluoromethyl)phenyl]methyl] ester, (2S)- (9CI) (CA INDEX NAME)

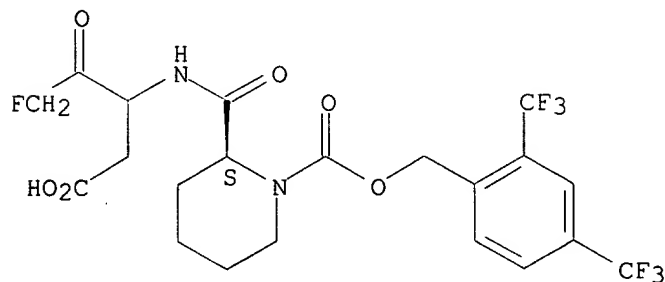
FS STEREOSEARCH

MF C21 H21 F7 N2 O6

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

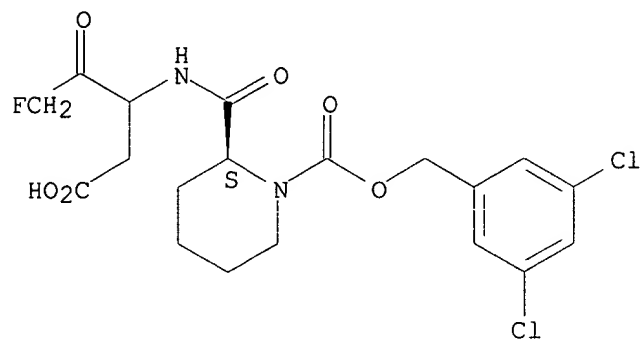
1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 32 OF 57 REGISTRY COPYRIGHT 2002 ACS  
 RN 376346-72-4 REGISTRY  
 CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, 1-[(3,5-dichlorophenyl)methyl] ester, (2S)-(9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C19 H21 Cl2 F N2 O6  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



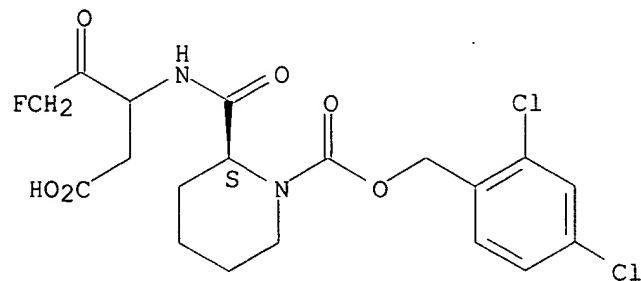
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 33 OF 57 REGISTRY COPYRIGHT 2002 ACS  
 RN 376346-71-3 REGISTRY  
 CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, 1-[(2,4-dichlorophenyl)methyl] ester, (2S)-(9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C19 H21 Cl2 F N2 O6  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



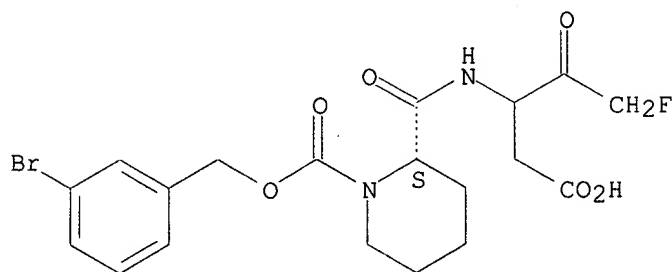
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 34 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN **376346-70-2** REGISTRY  
CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, 1-[(3-bromophenyl)methyl] ester, (2S)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C19 H22 Br F N2 O6  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 35 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN **376346-69-9** REGISTRY  
CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, 1-(3-thienylmethyl) ester, (2S)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C17 H21 F N2 O6 S  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

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L16 ANSWER 36 OF 57  REGISTRY  COPYRIGHT 2002 ACS
RN  376346-68-8  REGISTRY
CN  1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, 1-(2-pyridinylmethyl) ester, (2S)- (9CI)  (CA INDEX NAME)
FS  STEREOSEARCH
MF  C18 H22 F N3 O6
SR  CA
LC  STN Files:  CA, CAPLUS, TOXCENTER, USPATFULL
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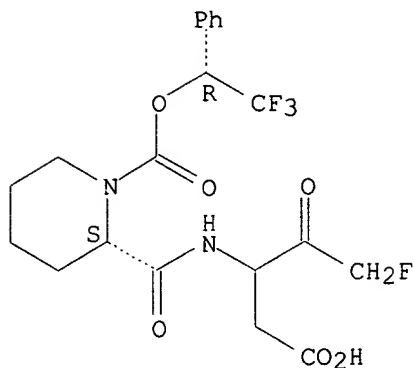
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1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

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L16 ANSWER 37 OF 57  REGISTRY  COPYRIGHT 2002 ACS
RN  376346-67-7  REGISTRY
CN  1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-
oxopropyl]amino]carbonyl]-, 1-[(1R)-2,2,2-trifluoro-1-phenylethyl] ester,
(2S)- (9CI) (CA INDEX NAME)
FS  STEREOSEARCH
MF  C20 H22 F4 N2 O6
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SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



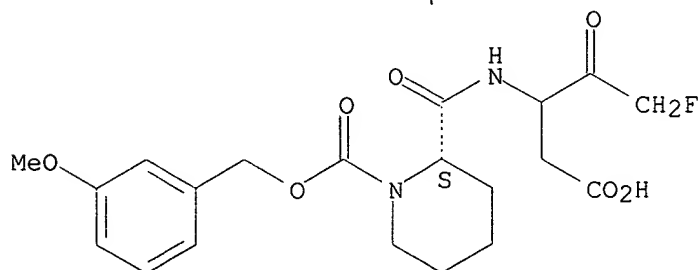
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1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 38 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN 376346-66-6 REGISTRY  
CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, 1-[(3-methoxyphenyl)methyl] ester, (2S)- (9CI)  
(CA INDEX NAME)  
FS STEREOSEARCH  
MF C20 H25 F N2 O7  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



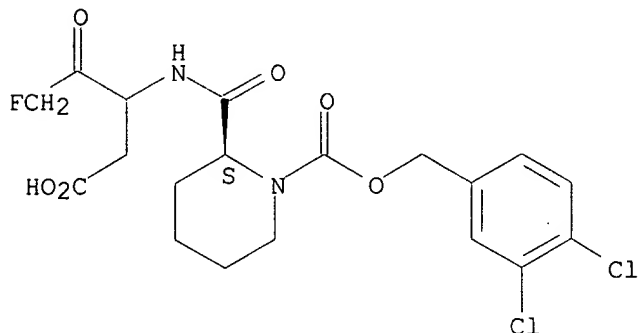
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1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 39 OF 57 REGISTRY COPYRIGHT 2002 ACS  
 RN 376346-65-5 REGISTRY  
 CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, 1-[(3,4-dichlorophenyl)methyl] ester, (2S)-(9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C19 H21 Cl2 F N2 O6  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



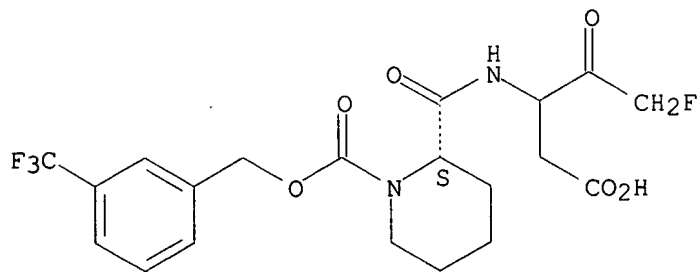
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1 REFERENCES IN FILE CA (1962 TO DATE)  
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REFERENCE 1: 136:5915

L16 ANSWER 40 OF 57 REGISTRY COPYRIGHT 2002 ACS  
 RN 376346-64-4 REGISTRY  
 CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, 1-[[[3-(trifluoromethyl)phenyl]methyl] ester, (2S)-(9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C20 H22 F4 N2 O6  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



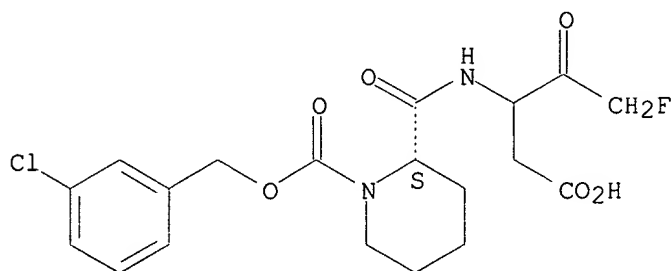
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1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 41 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN 376346-63-3 REGISTRY  
CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, 1-[(3-chlorophenyl)methyl] ester, (2S)- (9CI)  
(CA INDEX NAME)  
FS STEREOSEARCH  
MF C19 H22 Cl F N2 O6  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:5915

L16 ANSWER 42 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN 376346-62-2 REGISTRY  
CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, 1-[[2-(trifluoromethyl)phenyl]methyl] ester, (2S)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C20 H22 F4 N2 O6  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

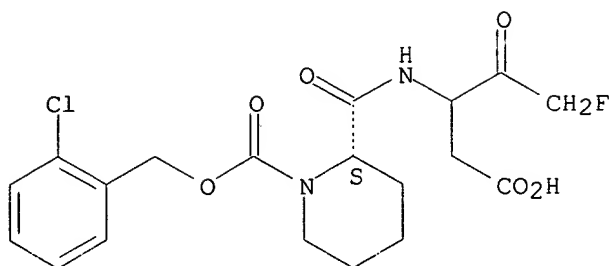
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1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

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L16 ANSWER 43 OF 57  REGISTRY  COPYRIGHT 2002 ACS
RN  376346-61-1  REGISTRY
CN  1(2H)-Quinolinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-3,4-dihydro-, 1-(phenylmethyl) ester, (2S)-(9CI) (CA INDEX NAME)
FS  STEREOSEARCH
MF  C23 H23 F N2 O6
SR  CA
LC  STN Files:  CA, CAPLUS, TOXCENTER, USPATFULL
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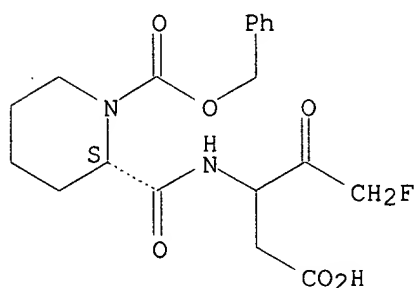
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L16 ANSWER 44 OF 57  REGISTRY  COPYRIGHT 2002 ACS
RN  376346-60-0  REGISTRY
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oxopropyl]amino]carbonyl]-, 1-[(2-chlorophenyl)methyl] ester, (2S)- (9CI)
(CA INDEX NAME)
FS  STEREOSEARCH
MF  C19 H22 Cl F N2 O6
SR  CA
LC  STN Files:  CA, CAPLUS, TOXCENTER, USPATFULL
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1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

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L16 ANSWER 45 OF 57  REGISTRY  COPYRIGHT 2002 ACS
RN 376346-59-7  REGISTRY
CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-fluoro-2-oxopropyl]amino]carbonyl]-, 1-(phenylmethyl) ester, (2S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C19 H23 F N2 O6
SR CA
LC STN Files:  CA, CAPLUS, TOXCENTER, USPATFULL
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Absolute stereochemistry.

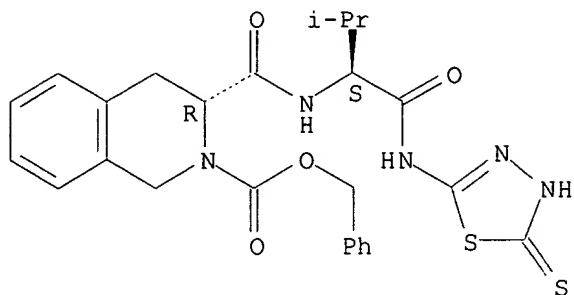


1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

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L16 ANSWER 46 OF 57  REGISTRY  COPYRIGHT 2002 ACS
RN  209275-18-3  REGISTRY
CN  2(1H)-Isoquinolinecarboxylic acid, 3-[[[(1S)-1-[[[(4,5-dihydro-5-thioxo-
1,3,4-thiadiazol-2-yl)amino]carbonyl]-2-methylpropyl]amino]carbonyl]-3,4-
dihydro-, phenylmethyl ester, (3R)- (9CI) (CA INDEX NAME)
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FS STEREOSEARCH  
MF C25 H27 N5 O4 S2  
SR CA  
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



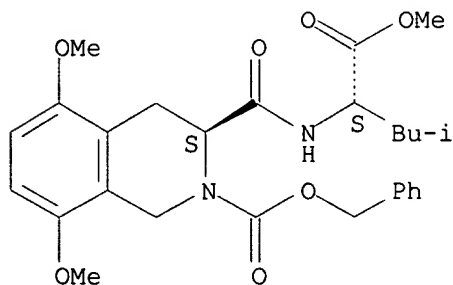
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 129:81965

L16 ANSWER 47 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN **207228-79-3** REGISTRY  
CN 2(1H)-Isoquinolinecarboxylic acid, 3,4-dihydro-5,8-dimethoxy-3-[[[(1S)-1-(methoxycarbonyl)-3-methylbutyl]amino]carbonyl]-, phenylmethyl ester, (3S)- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN 2(1H)-Isoquinolinecarboxylic acid, 3,4-dihydro-5,8-dimethoxy-3-[[[1-(methoxycarbonyl)-3-methylbutyl]amino]carbonyl]-, phenylmethyl ester, [S-(R\*,R\*)]-  
FS STEREOSEARCH  
MF C27 H34 N2 O7  
SR CA  
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 129:4862

L16 ANSWER 48 OF 57 REGISTRY COPYRIGHT 2002 ACS

RN 207228-44-2 REGISTRY

CN 2(1H)-Isoquinolinecarboxylic acid, 3-[[[(1S)-1-carboxy-3-methylbutyl]amino]carbonyl]-3,4-dihydro-5,8-dimethoxy-, 2-(phenylmethyl) ester, (3S)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2(1H)-Isoquinolinecarboxylic acid, 3-[[[(1-carboxy-3-methylbutyl)amino]carbonyl]-3,4-dihydro-5,8-dimethoxy-, 2-(phenylmethyl) ester, [S-(R\*,R\*)]-

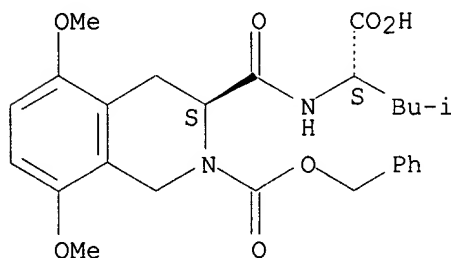
FS STEREOSEARCH

MF C26 H32 N2 O7

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 129:4862

L16 ANSWER 49 OF 57 REGISTRY COPYRIGHT 2002 ACS

RN 192457-82-2 REGISTRY

CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-[5-[(2,6-dichlorophenyl)methyl]-1H-tetrazol-1-yl]-2-oxopropyl]amino]carbonyl]-, 1-(phenylmethyl) ester, [S-(R\*,S\*)]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

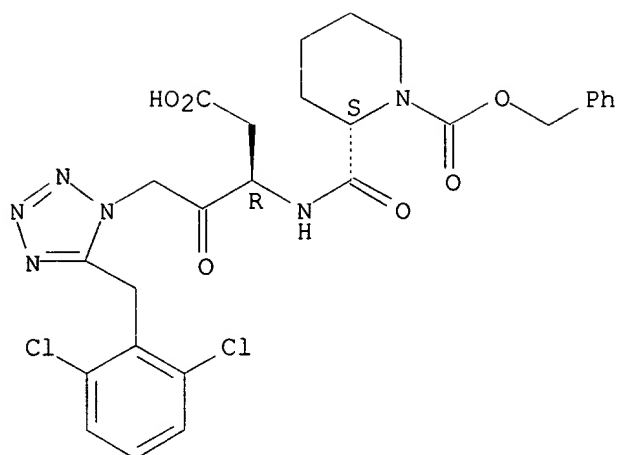
MF C27 H28 Cl2 N6 O6

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.





\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 127:109196

L16 ANSWER 50 OF 57 REGISTRY COPYRIGHT 2002 ACS

RN 192457-80-0 REGISTRY

CN 1-Piperidinecarboxylic acid, 2-[[[1-(carboxymethyl)-3-[5-[(2,6-dichlorophenyl)methyl]-1H-tetrazol-1-yl]-2-oxopropyl]amino]carbonyl]-, 1-(phenylmethyl) ester, [S-(R\*,R\*)]- (9CI) (CA INDEX NAME)

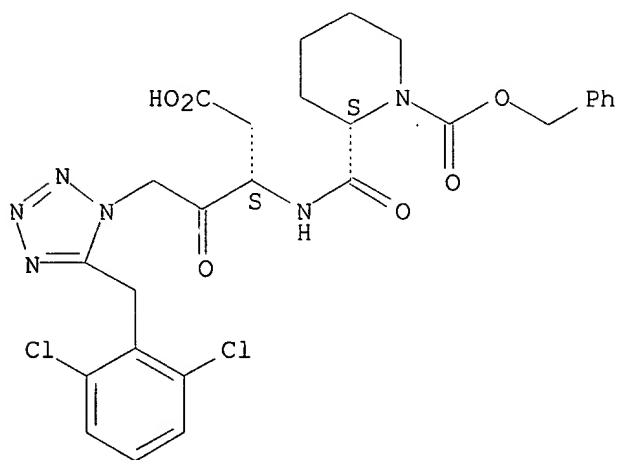
FS STEREOSEARCH

MF C27 H28 Cl2 N6 O6

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



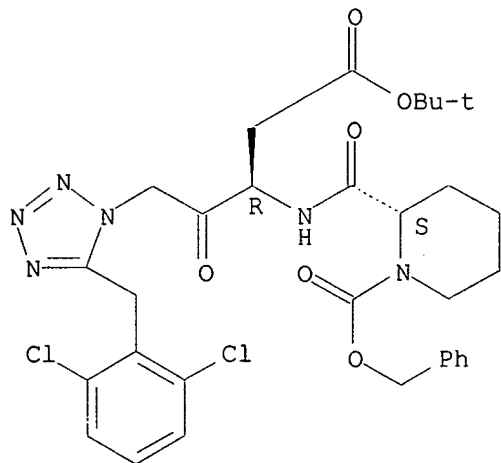
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 127:109196

L16 ANSWER 51 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN 192457-29-7 REGISTRY  
CN 1-Piperidinecarboxylic acid, 2-[[[3-[5-[(2,6-dichlorophenyl)methyl]-1H-tetrazol-1-yl]-1-[2-(1,1-dimethylethoxy)-2-oxoethyl]-2-oxopropyl]amino]carbonyl]-, phenylmethyl ester, [S-(R\*,S\*)]- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C31 H36 Cl2 N6 O6  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



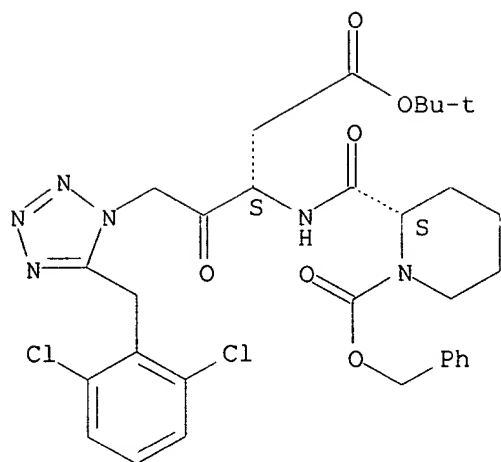
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 127:109196

L16 ANSWER 52 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN 192457-27-5 REGISTRY  
CN 1-Piperidinecarboxylic acid, 2-[[[3-[5-[(2,6-dichlorophenyl)methyl]-1H-tetrazol-1-yl]-1-[2-(1,1-dimethylethoxy)-2-oxoethyl]-2-oxopropyl]amino]carbonyl]-, phenylmethyl ester, [S-(R\*,R\*)]- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C31 H36 Cl2 N6 O6  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



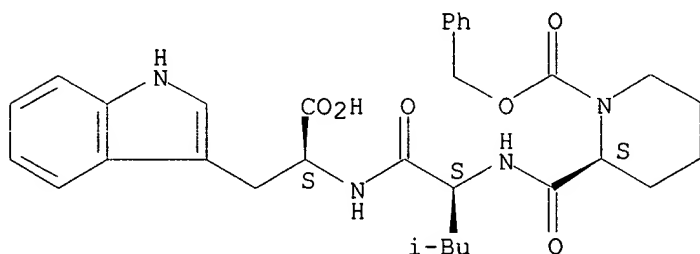
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 127:109196

L16 ANSWER 53 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN **187802-49-9** REGISTRY  
CN L-Tryptophan, (2S)-1-[(phenylmethoxy)carbonyl]-2-piperidinecarbonyl-L-leucyl- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C31 H38 N4 O6  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

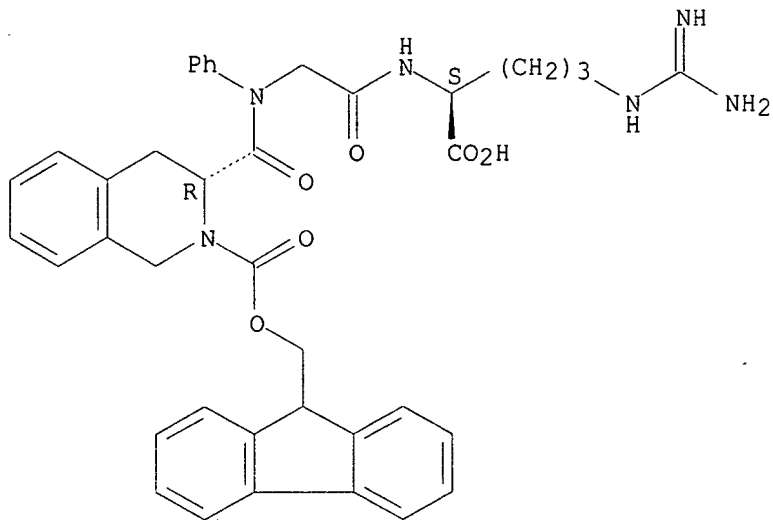
1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 126:220696

L16 ANSWER 54 OF 57 REGISTRY COPYRIGHT 2002 ACS  
RN **172834-29-6** REGISTRY

CN L-Arginine, N2-[N-[[2-[(9H-fluoren-9-ylmethoxy)carbonyl]-1,2,3,4-tetrahydro-3-isoquinolinyl]carbonyl]-N-phenylglycyl]-, (R)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C39 H40 N6 O6  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



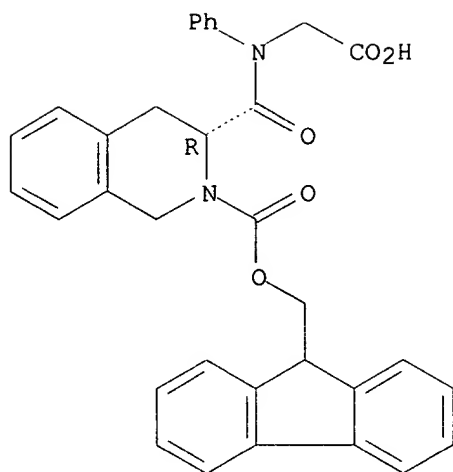
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 124:118000

L16 ANSWER 55 OF 57 REGISTRY COPYRIGHT 2002 ACS  
 RN 172834-28-5 REGISTRY  
 CN 2(1H)-Isoquinolinecarboxylic acid, 3-[[[(carboxymethyl)phenylamino]carbonyl]-3,4-dihydro-, 2-(9H-fluoren-9-ylmethyl) ester, (R)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C33 H28 N2 O5  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1962 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 124:290235

REFERENCE 2: 124:118000

L16 ANSWER 56 OF 57 REGISTRY COPYRIGHT 2002 ACS

RN 149045-27-2 REGISTRY

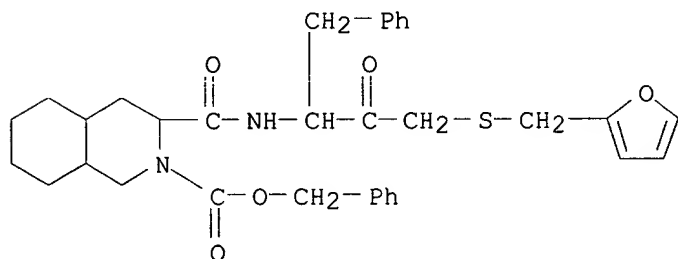
CN 2(1H)-Isoquinolinecarboxylic acid, 3-[[[3-[(2-furanylmethyl)thio]-2-oxo-1-(phenylmethyl)propyl]amino]carbonyl]octahydro-, phenylmethyl ester (9CI)  
(CA INDEX NAME)

FS 3D CONCORD

MF C33 H38 N2 O5 S

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1962 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 122:105635

REFERENCE 2: 119:96186

L16 ANSWER 57 OF 57 REGISTRY COPYRIGHT 2002 ACS

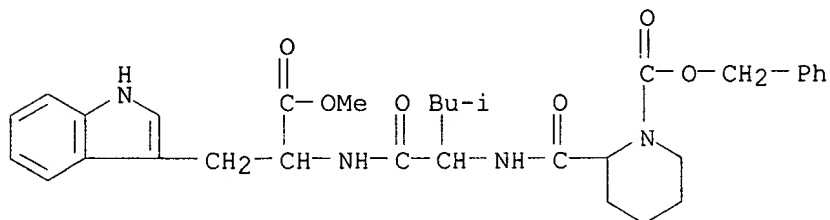
RN 143413-25-6 REGISTRY

CN L-Tryptophan, N-[N-[[1-[(phenylmethoxy)carbonyl]-2-piperidiny]carbonyl]-L-leucyl]-, methyl ester, (S)- (9CI) (CA INDEX NAME)

MF C32 H40 N4 O6

SR CA

LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 117:212969